



GOOD OLD AI
RESEARCH NETWORK

Paperista: Visual Exploration of Semantically Annotated Research Papers

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- URL: www.uzrok.com/paperista



1. Identifying paper topics
2. Calculating significance of topics
3. Filtering out alien and generic topics



- We used Wikipedia (DBpedia) based semantic annotators on paper title and abstract:
 - TAGME



- Term Frequency – Inverse Document Frequency (TF-IDF) - reflects how important a word is to a document in a collection or corpus
- TF-IDF has been modified to calculate significance of a topic in LAK 2013 dataset papers' topics

3. Filtering out alien and generic topics

- Calculating relatedness between topics using Wikipedia Miner tool

Alien topics

- example: *Henry Snapp* instead of *Snapp tool*

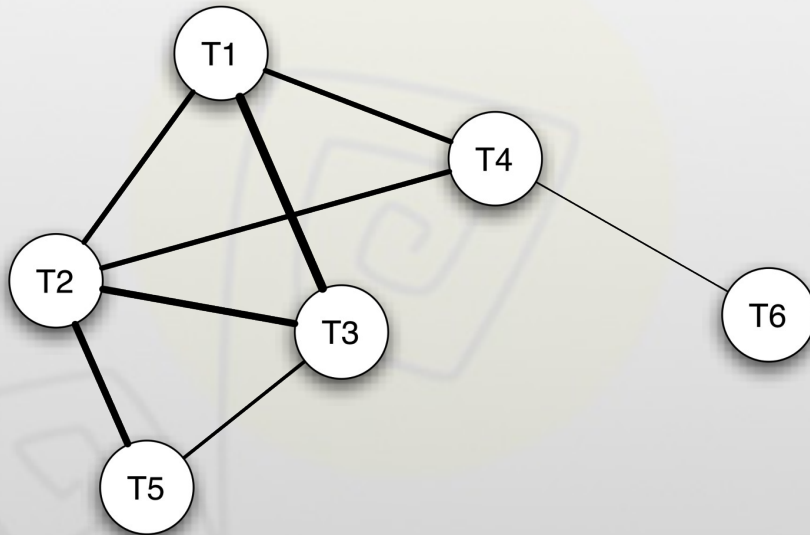


Fig. 1. Not many relationships

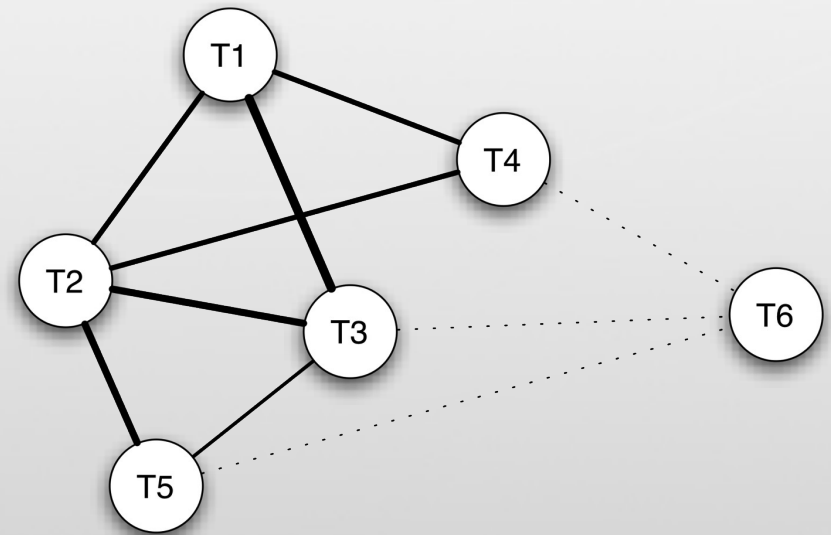


Fig. 2. Weak relationships

3. Filtering out alien and generic topics



Generic topics

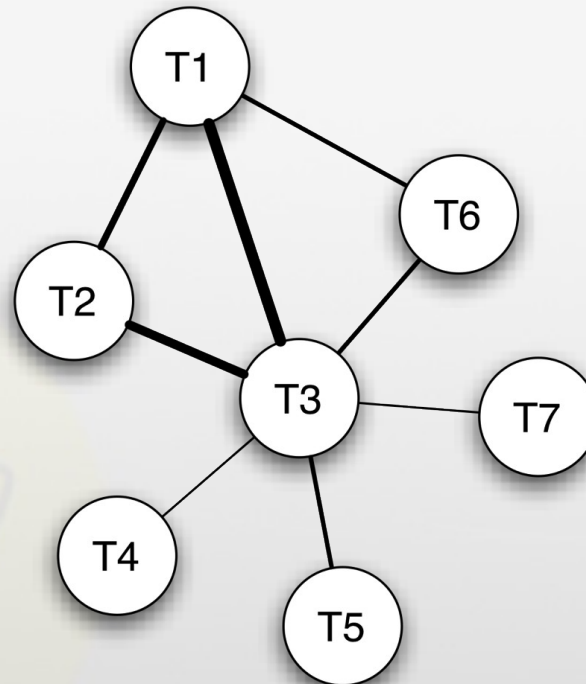


Fig. 3. Related with many other topics



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